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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/003,304	12/06/2001	Shunji Nakamura	960456B	7007
38834 7.	590 12/18/2003		EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			NADAV, ORI	
1250 CONNEC SUITE 700	NNECTICUT AVENUE, NW 00		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036			2811	

DATE MAILED: 12/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		DE .				
	Application No.	Applicant(s)				
	10/003,304	NAKAMURA, SHUNJI				
Office Action Summary	Examiner	Art Unit				
	ori nadav	2811				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	I. 1.136(a). In no event, however, may a pply within the statutory minimum of the d will apply and will expire SIX (6) Mo ute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 09	9 October 2003 .					
•	This action is non-final.					
3) Since this application is in condition for allow	wance except for formal m	atters, prosecution as to the merits is				
closed in accordance with the practice under Disposition of Claims	er <i>Ex parte Quayle</i> , 1935 (C.D. 11, 453 O.G. 213.				
4)⊠ Claim(s) 2,4-14 and 28-31 is/are pending in the application.						
4a) Of the above claim(s) 2,4,7-9 and 28-31 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>5,6 and 10-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examir						
10)⊠ The drawing(s) filed on <u>06 December 2001</u> is,						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) ☐ The oath or declaration is objected to by the E	=xaminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. <u>08/970,212</u> .						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) ☐ Acknowledgment is made of a claim for dome:	stic priority under 35 U.S.0	C. § 119(e) (to a provisional application).				
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for dome						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice	w Summary (PTO-413) Paper No(s) If Informal Patent Application (PTO-152)				
J.S. Patent and Trademark Office						

Art Unit: 2811

DETAILED ACTION

Election/Restriction

Applicant's election without traverse of the embodiment of figures 30 and
 reading on claims 5-6 and 10-14 in Paper No. 11 is acknowledged.

Claim Objections

Claims 10 and 11 are objected to because of the following informalities: The term "scrapping" should read "strapping". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 10-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no support in the embodiment of figures 30-31 for a strapping word line, a shield electrode and a second wiring, as recited in claims 10-13, respectively. This rejection will be withdrawn if applicant includes claims 10-13 with a different embodiment.

Art Unit: 2811

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 5-6, 10-11 and 13-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Hamamoto et al. (5,895,946).

Hamamoto et al. teach in figure 88A a memory device comprising: a device layer including a silicon layer 211, 212 having first and second diffusion layers (column 23, lines 30-37) formed therein, a gate electrode 207 formed through an insulating film 206 on one side of the silicon layer between the first and second diffusion regions, a capacitor 215 formed on the one side of the silicon layer and having a storage electrode 205 connected to the first diffusion region,

a strapping bit line 210 formed on one side and on the other side of the silicon layer and connected to the second diffusion region (column 28, lines 48-49), and

a support substrate 219 formed on the one side of the semiconductor layer for supporting the device layer,

the semiconductor layer including a first region which is extended in the direction of extension of the bit line and includes the first and second diffused regions, and a

Application/Control Number: 10/003,304 Page 3

Art Unit: 2811

second region which is extended in a direction of extension of the gate electrode in the first region and includes the second diffused region;

a first contact hole being formed in the first region for connecting the first diffused region to the capacitor and

a second contact hole being formed in the second region for connecting the bit line with the second diffused region,

wherein the first and second regions are connected together.

Regarding claim 13, Hamamoto et al. teach a second wiring layer (bit line) on the other side of the semiconductor layer and electrically connected to a region of the semiconductor layer between the first and the second diffused regions.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamamoto et al. (5,895,946) in view of Ajika et al. (5,798,289).

Art Unit: 2811

Hamamoto et al. teaches substantially the entire claimed structure, as applied to claim 1 above, except a shield electrode formed on the bit line for suppressing interference between the bit lines. Ajika et al. Teach in figure 15 a shield electrode 40 formed above (on) the bit line for suppressing interference between the bit lines. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use a shield electrode in Hamamoto et al.'s device, in order to suppress noise in the device.

Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used only for papers related to Group 2811 applications.

Any inquiry concerning this communication or any earlier communication from the Examiner should be directed to Examiner Nadav whose telephone number is (703) 308-8138. The Examiner is in the Office generally between the hours of 7 AM to 4 PM (Eastern Standard Time) Monday through Friday.

Art Unit: 2811

Any inquiry of a general nature or relating to the status of this application should be directed to the **Technology Center Receptionists** whose telephone number is **308-0956**

O.N. 12/11/03 ORI NADAV
PATENT EXAMINER
TECHNOLOGY CENTER 2800

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